ABSTRACT OF THE DISCLOSURE

averaging operation is presented. The averaging operation averages multiple sets of data elements, for example, two data elements each from a first source and a second source, producing a set of averages. In at least one embodiment, in a first adder stage, a first plurality of data elements are added to a second plurality of data elements, generating a plurality of intermediate results. In a second adder stage, multiple different combinations of the plurality of intermediate results are added together, generating a plurality of sum results. The two least significant bits of each sum result are discarded.

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